ABSTRACT OF THE DISCLOSURE

HIGH CAPACITY DIGITAL DATA STORAGE BY TRANSMISSION OF RADIANT ENERGY THROUGH ARRAYS OF SMALL DIAMETER HOLES

A storage media for storage of data thereon is provided. The storage media including: a first layer, the first layer being substantially transparent to a predetermined radiant energy used for reading the data; and a second layer formed on the first layer and being substantially opaque to the radiant energy, the second layer having a pattern comprising a plurality of holes, each of the holes having a largest dimension which is greater than a wavelength of the radiant energy, the data being stored as the presence or absence of a hole in the pattern. Also provided are a method for fabricating the storage media as well as an apparatus and method for reading the data stored on the storage media.